

Amendments to the Specification

Replace original paragraph 0053 with amended paragraph 0053 below.

5 [0053] Figure 19 illustrates the disconnect switch 1902 and the fuses 1906. The disconnect switch 1902 and the fuses 1906 are illustrated as the switch 204 and fuses 206 in Figure 2. The disconnect switch 1902 is secured to a support plate 322, which is located in the mid-section of the cabinet 302 (illustrated in Figure 3). The bottom portion of the lower disconnect switch contacts 2206 (illustrated in Figures 22 and 23) are the upper fuse holders
10 1904. The lower fuse holders 1908 are similar to the upper fuse holders 1904. The lower fuse holders 1908 are electrically connected to the contactor. The fuses 1906 are conventional fuses that provide overcurrent protection. Although Figure 19 shows only a set of three fuses 1906A, 1906B, and 1906C, in various embodiments, either six or nine fuses can be used, with two or three fuses 1906 in parallel, respectively. Two fuses 1906 in parallel
15 use a lower two-fuse holder 2010 as illustrated in Figure 20A. Three fuses 1906 in parallel use a lower three-fuse holder assembly 2010' ~~2022~~ as illustrated in Figure 20B. This configuration of fuses 1906 permits removal and replacement of the fuses 1906 without removing, or withdrawing, the contactor or disconnect switch 1902. Additionally, the operator of the disconnect switch 1902 is interlocked with the contactor door 304 such that
20 the door 304 cannot be opened and the fuses 1906 or other high-voltage components cannot be accessed unless the disconnect switch 1902 is in the open position.

(Replace original paragraph 0054 with amended paragraph 0054 below.)

[0054] Figure 20A illustrates a two-fuse holder 2010, such as the lower fuse holder 1908,
25 which includes a pair of fuse clips 2006A and 2006B and an outer shroud 2004. Figure 20B illustrates a top view of the fuse holder 2010 illustrated in Figure 20A and a single fuse holder 2020, which is secured to the fuse holder 2010. The shrouds 2004, 2014 of the lower fuse holder 1908 include mounting holes 2022A, 2022B, 2022C (collectively 2022) for

A1 upper fuse holder **1904** are cast with the lower disconnect switch contacts **2206** (illustrated in Figures 22 and 23) and do not have mounting holes **2022**.

Replace original paragraph 0056 with amended paragraph 0056 below.

5 [0056] The shroud **2004** is formed of a single casting of aluminum, plated copper, or other conducting material and has rounded surfaces, which minimizes the electrical stress and reduces corona. The shroud **2004** surrounds the sides of the fuse clips **2006** and, for the lower fuse holder **1908**, has a side opening **2008** for the fuse **1906** to be inserted into the fuse clip **2006**. The upper fuse holder **1904** does not require the side opening **2008**. In one
10 embodiment, illustrated in Figures 22 and 23, the upper fuse holder **1904**, illustrated as fuse holders **2206A**, **2206B**, **2206C**, includes rounded slots **2232A**, **2232B1**, **2232B2**, **2232C1**, **2232C2** through which the engagement of the fuse **1906** can be inspected and to provide access to the fuse clip **2006**.

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15 (Replace original paragraph 0057 with amended paragraph 0057 below.)

[0057] Figure 20B illustrates a three-fuse holder assembly **2010'** **2022** including a two-fuse holder **2010** attached to a single fuse holder **2020** by a fastener **2032**. Those skilled in the art will recognize that the fastener **2032** can be a bolt **2032** and nut **2034**, a rivet, or other type of fastener without departing from the spirit and scope of the present invention.

20 (Replace original paragraph 0058 with amended paragraph 0058 below.)

[0058] Figure 21 illustrates a housing **2104** of the disconnect switch **1902** and a switch illuminator **2150**. The housing **2104** includes a frame window **2108** surrounding a view window, through which the internals of the housing **2104** can be viewed. The disconnect
25 switch **1902** includes an operator connector **2102**, into which an operator handle fits. Rotating the operator handle, and the operator connector **2102**, operates the disconnect switch **1902**, which is shown schematically in Figure 2 as the disconnect switch **204**. The line-side connection is made directly to the bus connection tabs **2302** protruding above the housing **2104**. This direct connection eliminate risers or other extraneous electrical connections to the

disconnect switch **1902** and serves to reduce potential heat generating connections. The line-side bus is shown as the bus **202** on Figure 2.

(Replace original paragraph 0059 with amended paragraph 0059 below.)

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5 [0059] Figure 22 illustrates the internals of the disconnect switch **1902** in the closed position, including the upper switch contacts ~~**2204**~~ **2202**, the switch blades **2204**, the operator shaft **2212**, and the lower switch contacts ~~**2206**~~ **2314**. Figure 22 shows an embodiment of a lower switch contact **2314A** attached to ~~**2206A**~~ having a single fuse holder **2020** (also shown on Figure 20B). Figure 22 also shows an embodiment of the lower switch contact **2314B** and
10 **2314C** attached to ~~**2206B**~~ and ~~**2206C**~~ having a two-fuse holder **2010** (also shown on Figures 20A and 20B). Figure 22 shows the two embodiments for illustrative purposes because, typically, only one embodiment would be used in a controller **102** at a time. Figure 23 illustrates a cross-section view of the internals of the disconnect switch **1902** illustrated in Figure 22, with the addition of the grounding stabs **2324** protruding from the grounding bar
15 **2322**, which grounds the load-side of the disconnect switch **1902** when the switch **1902** is in the open position. The grounding stabs **2324** and the grounding bar **2322** are not illustrated in Figure 22. The illustrated embodiment of the disconnect switch **1902** has cast parts to minimize the number of components and reduce the number of heat generating connections.

Replace original paragraph 0061 with amended paragraph 0061 below.

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[0061] Each lower switch contact ~~**2206**~~ includes the lower contact **2314**, is formed with a mounting pad **2222**, and an upper fuse holder **2206**. The lower switch contact **2314** ~~**2206**~~ is formed from a conductive material. The mounting pad **2222** has openings **2224** used to attach the lower switch contact **2314** ~~**2206**~~ to the housing **2104**. Those skilled in the art will
25 recognize that any of various types of fasteners can be used to secure the lower switch contact **2314** ~~**2206**~~ to the housing **2104** without departing from the spirit and scope of the present invention.

(Replace original paragraph 0062 with amended paragraph 0062 below.)

A 3 5 [0062] Each switch blade **2204** includes two flat bars **2204'** and **2204''** that sandwich the upper contact **2304** and a lower contact **2314**. The switch blades **2204** are formed from a conductive material. The operator shaft **2212** is connected to the operator connector **2102** outside the housing **2104** and to the switch blade holders **2214** inside the housing **2104**. Each switch blade holder **2214** contains a pair of parallel switch blades **2204'** and **2204''**.

Internally, the switch blade holders **2214** include springs that force the switch blades **2204** against the upper contact **2304** and the lower switch contact **2314** such that electrical continuity is established between the upper switch contact **2202** and the lower switch contact **2314 2206** when the disconnect switch **1902** is positioned in the closed position illustrated in

10 Figure 22.
